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- Optical Fiber Communication Conference (OFC) 2006 paper: JThB98
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- Atieh, Ahmad K; Perez, Pablo; Sheikh, Fahim; Andrew, Robin
- As the telecommunications industry recovers, the main goal is to introduce new high revenue services at the lowest possible cost while maximizing the leverage of existing legacy...

A "Black-Link" Approach for Sharing Optical Fiber Infrastructure and Enabling Multi-Services

- National Fiber Optic Engineers Conference (NFOEC) 2006 paper: JThB98
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- Atieh, Ahmad K; Perez, Pablo; Sheikh, Fahim; Andrew, Robin
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Consolidation of a Metro Network into an Access Network Based on Long-Reach DWDM-PON

- National Fiber Optic Engineers Conference (NFOEC) 2006 paper: NWA2
- Technical Digest (CD)
- Lee, Sang-Mook; Mun, Sil-Gu; Lee, Chang-Hee
- Historically, the maximum transmission length of a PON (Passive Optical Network) has been considered as 20-km. Then, a single CO

(Central Office) that has switching equipment and...



Highly compact and tunable optical add-drop multiplexer in dense WDM network systems

- Journal of Optical Networking, Vol. 2 Issue 10, pp.370-378 (2003)
- Zhu, Yinian; Shum, Ping; Lu, Chao; Lacquet, Beatrys; Swart, Pieter; Spammer, Stephanus
- We designed and configured a highly compact and tunable optical add-drop multiplexer (OADM) device that consists of long-period gratings (LPGs) and piezoelectric ceramic fiber...



System demonstration of wavelength-tunable multiple-ITU-WDM-channel add/ drop multiplexer using an optical-switch pair and fiber Bragg gratings

- Optical Fiber Communication Conference (OFC) 1998 paper: WM39
- 1998 OSA Technical Digest Series
- Liaw, S K; Chen, Y K; Lee, C C



Extension of TDM-PON Standards to a Single-Fiber Ring Access Network Featuring Resilience and Service Overlay

- Journal of Lightwave Technology, Vol. 25 Issue 6, pp.1416-1421 (2007)
- Bock, Carlos; Lázaro, José A; Prat, Josep
- A novel single-fiber ring-tree topology overlying multiple time-division-multiplexed (TDM) passive optical networks is presented and demonstrated. Each TDM service is overlaid on a...



A Photonic Front-End Processor in a WDM ATM Multicast Switch

- Journal of Lightwave Technology, Vol. 18 Issue 3, pp.273- (2000)
- Chao, H J; Wu, L; Zhang, Z; Yang, S H; Wang, L M; Chai, Y; Fan, J Y; Choa, F S
- Dense wavelength-division multiplexing (DWDM) technology has provided tremendous transmission capacity in optical fiber communications. However, switching and routing capacity is still...



Multiple-Beam Fiber-Optic Beamformer With Binary Array of Delay Lines

- Journal of Lightwave Technology, Vol. 21 Issue 12, pp.3262- (2003)
- Granieri, S; Jaeger, M; Siahmakoun, A
- A multibeam optical beamformer capable of controlling a phased-array antenna in receive/transmit mode is proposed. The processor can be programmed to sweep the antenna aperture...



Investigation of thermo-optic effect and multi-reflector tunable filter/multiplexer in SOI waveguides

- Optics Express, Vol. 13 Issue 9, pp.3429-3437 (2005)
- Passaro, Vittorio; Magno, Francesca; Tsarev, Andrei
- The paper presents an analysis of thermo-optic phase shifters in silicon-on-insulator (SOI) waveguide structures. It gives recommendations to provide high tuning characteristics at...



DWDM Reach Extension of a GPON to 135 km

- Journal of Lightwave Technology, Vol. 24 Issue 1, pp.29- (2006)
- Davey, Russell P; Healey, Peter; Hope, Ian; Watkinson, Phil; Payne, Dave B; Marmur, Oren; Ruhmann, Jörg; Zuiderveld, Yvonne
- We report the operation of a gigabit-capable passive optical network (GPON, 2.488 Gb/s downstream and 1.244 Gb/s upstream) over 135 km giving performance that is consistent with the...



Multi-Channel High-Speed Optical Pulse Train Generation Based on Phase Modulation at Half Frequency

- Conference on Lasers and Electro-Optics (CLEO) 2007 paper: CMJJ7
- OSA Technical Digest Series (CD)
- Yu, Changyuan; Li, Zhaohui; Yang, Jing; Wang, Yixin
- We demonstrate ITU-grid multi-channel high-speed (40-GHz experimentally, and 80-GHz in simulation) chirp-free return-to-zero optical pulse train generation by a single phase...



Delivery of Digital Video and Other Multimedia Services (> 1 Gb/ s Bandwidth) in Passband above the 155 Mb/ s Baseband Services on a FTTx Full Service Access Network

- Journal of Lightwave Technology, Vol. 17 Issue 12, pp.2449- (1999)
- Chand, Naresh; Magill, Peter D; Swaminathan, Swami V; Daugherty, Thomas H
- For low cost passive optical access networks (PON), we have studied the downstream delivery of an additional > 1 Gb/s in the passband above the 155 Mb/s baseband services. Both...



Tunable multi-wavelength fiber ring laser based on a Hi-Bi fiber loop mirror

- Chinese Optics Letters, Vol. 2 Issue 9, pp.531-533 (2005)
- Wang, Zhaoying; Hu, Zhiyong; Ge, Chunfeng; Jiang, Xiaojun; Bao, Huanmin; Jia, Dongfang; Li, Shichen
- A novel tunable multi-wavelength fiber ring laser based on semiconductor optical amplifier (SOA) is proposed by using a high-birefringence (Hi-Bi) fiber loop mirror (FLM) as...



A new approach of planar multi-channel wavelength division multiplexing system using asymmetric super-cell photonic crystal structures

- Optics Express, Vol. 15 Issue 1, pp.198-206 (2007)
- Kuo, Chih-Wen; Chang, Chih-Fu; Chen, Mao-Hsiung; Chen, Shih-Yuan; Wu, Yaw-Dong
- This work demonstrated a new approach of planar multi-channel wavelength division multiplexing (WDM) system using photonic crystal structures. The system consists of a waveguide...



Spectral Efficient Transmission of 40Gbps per Channel over 50GHz Spaced DWDM Systems Using Optical Carrier Suppression, Separation and Optical Duobinary Modulation

- National Fiber Optic Engineers Conference (NFOEC) 2006 paper: NTuC2
- Technical Digest (CD)
- Xu, Lei; Wang, Ting; Chowdhury, Arshad M; Yu, Jianjun; Chang, Gee-Kung; Fukuchi, Kiyoshi; Ito, Toshiharu

- The explosive growth in current data centric internet traffic requires increasing the number of optical channels and the data rate per channel in today's dense-wavelength division...




On the Resource Efficiency of Virtual Concatenation in SDH/ SONET Mesh Transport Networks Bearing Protected Scheduled Connections



- Journal of Lightwave Technology, Vol. 23 Issue 10, pp.3012- (2005)
- Kuri, Josu?; Gagnaire, Maurice; Puech, Nicolas
- Virtual concatenation (VCAT) is a Synchronous Digital Hierarchy (SDH)/Synchronous Optical Network (SONET) network functionality recently standardized by the International...



Flexible FTTX Deployment Using Segmented Ribbon and Bend Insensitive Fiber

- National Fiber Optic Engineers Conference (NFOEC) 2006 paper: NTuA1
- Technical Digest (CD)
- Van Vickle, Patrick; Stokes, Steve; Mackie, George
- Fiber to the premises deployments have grown significantly with over one million homes passed. Every sign points to this trend continuing both in the Northeast and other markets...

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